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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/823,159 04/13/2004		Chung-Shi Liu	TSM03-0454	4549	
43859 7	590 06/01/2005		EXAMINER		
	MATSIL, L.L.P. ON ROAD, SUITE 1000		PIZARRO CRESPO, MARCOS D		
DALLAS, TX	•		ART UNIT	PAPER NUMBER	
			2814		
			DATE MAILED: 06/01/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Applicati	on No.	Applicant(s)				
		10/823,1	59 ·	LIU ET AL.	(M)			
•	Office Action Summary	Examine	r	Art Unit				
	-	1	. Pizarro-Crespo	2814				
Period fo	The MAILING DATE of this commun	nication appears on the	e cover sheet with the	correspondence add	ress			
A SH THE - Exte - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this com e period for reply specified above is less than thirty ( D period for reply is specified above, the maximum s ure to reply within the set or extended period for repl reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no ev munication. 30 days, a reply within the stat statutory period will apply and w y will, by statute, cause the app	ent, however, may a reply be to utory minimum of thirty (30) da ill expire SIX (6) MONTHS fron lication to become ABANDON	mely filed  ys will be considered timely.  n the mailing date of this com ED (35 U.S.C. § 133).	nmunication.			
Status		,						
1)⊠	Responsive to communication(s) fil	ed on 13 April 2004.						
2a) [	,	2b)⊠ This action is r	ion-final.					
3)								
Disposit	ion of Claims							
5)	Claim(s) 1-35 is/are pending in the 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-35 are subject to restrict	are withdrawn from co						
Applicat	ion Papers							
•	The specification is objected to by the	•						
10)	The drawing(s) filed on is/are		•					
	Applicant may not request that any obje	<u> </u>	· ·					
11)	Replacement drawing sheet(s) includin The oath or declaration is objected to	•		•				
Priority (	under 35 U.S.C. § 119	•						
a)	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the International Copies actions.	or documents have been or documents have been of the priority documental Bureau (PCT Rule)	en received. en received in Applica ents have been receiv le 17.2(a)).	tion No ved in this National S	tage			
Attachmen	at(s)							
1)  Notic 2)  Notic 3)  Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review ( mation Disclosure Statement(s) (PTO-1449 o er No(s)/Mail Date		4) Interview Summar Paper No(s)/Mail [ 5) Notice of Informal 6) Other:		<b>152)</b>			

Art Unit: 2814

Attorney's Docket Number: TSM03-0454

Filing Date: 4/13/2004

Claimed Foreign Priority Date: none

Applicant(s): Liu, et al.

Examiner: Marcos D. Pizarro-Crespo

## DETAILED ACTION

This Office action responds to application ser. No. 10/823,159 filed on 4/13/2004.

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-27, drawn to a semiconductor element, classified in class 257, subclass 774.
  - II. Claims 28-35, drawn to a method of making a semiconductor element, classified in class 438, subclass 637.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as product made and process of making. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, unpatentability of the group-I invention would not necessarily imply unpatentability of the group-II invention since the device of the group-I invention could be made by processes materially different than those of the group-II invention. For example, the via recess of claim 1 may be formed in the

conductive line having a depth of 1000 angstroms. This step may replace the step recited in claim 28 of forming a via recess having a depth ranging from about 100-600 angstroms.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

6. Papers related to this application may be submitted directly to Art Unit 2814 by facsimile transmission. Papers should be faxed to Art Unit 2814 via the Art Unit 2814 Fax Center. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2814 Fax Center number is (703) 872-9306. The Art Unit 2814 Fax Center is to be used only for papers related to Art Unit 2814 applications.

Application/Control Number: 10/823,159 (Restriction)

Art Unit: 2814

7. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Marcos D. Pizarro-Crespo at (571) 272-1716 and

between the hours of 9:30 AM to 8:00 PM (Eastern Standard Time) Monday through

Thursday or by e-mail via Marcos.Pizarro@uspto.gov. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can

be reached on (571) 272-1705.

8. Any inquiry of a general nature or relating to the status of this application may be

obtained from the Patent Application Information Retrieval (PAIR) system. Status

information for published applications may be obtained from either Private PAIR or

Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marcos D. Pizarro-Crespo

Patent Examiner Art Unit 2814

571-272-1716

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